9/25/02

To: WILLIAM DOWLING

Re: 08/912,565 US 5,865,521

Attached are search results.

No U. S. litigation was found in searches of Lexis-Nexis and Questel-Orbit databases.

If more searching or explanation is needed, please let me know.

Thanks,
Darcy Bates
STIC-EIC2800
306-5419
CP4-9C 18



PALM INTRANET

Day: Tuesday Date: 9/24/2002 Time: 15:18:49

Application Number Information

Application Number: 08/912565

Assignments

Filing Date: 08/18/1997

Effective Date: 08/18/1997

Application Received: 08/18/1997

Patent Number: 5865521

Issue Date: **02/02/1999**Date of Abandonment: **00/00/0000**

Attorney Docket Number: JAO-39791

Status: 150 /PATENTED CASE

Confirmation Number: 4795

Examiner Number: 68272 / DOWLING, WILLIAM

Group Art Unit: 2851

Class/Subclass: 353/031.000

Lost Case: NO

Interference Number: Unmatched Petition: **NO** L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 01/07/1999

Title of Invention: PROJECTION-TYPE DISPLAY APPARATUS

Bar Code	Location	Location Date	Chrg to Loc	Charge to Name	Emp. ID	Infra Loc		
08912565	28U2 TC-2800 SPRE, CP4 06E10	09/23/2002	28D1	No Charge to Name	HPHAN	CP4/06/E 14		
Appln Co	ontents Petition Info	Atty/Agen	t Info	Continuity Data	Fore	eign Data Inv		
Search Another: Application# or Patent# Search								
	PCT /	/ Sear	ch o	or PG PUBS#		Search		
Attorney Docket # Search								
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Day: Tuesday Date: 9/24/2002 Time: 15:20:19

Continuity Information for 08/912565

Parent Data No Parent Data

Child Data

 $\frac{09163163}{09774645}$ is a reissue of $\frac{08912565}{09163163}$

Appln Info Contents Petition Info Atty/Age	nt Info Continuity Foreign Data Invento Data
Search Another: Application# Search	or Patent# Search
PCT / Search	or PG PUBS # Search
Attorney Docket #	Search

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Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents (i)

Terms: patno=5865521 (Edit Search)

08912565 () 5865521 February 2, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT 5865521

Access PDF of Official Patent. (Note: Cost incurred in a later step)

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Link to Claims Section ◆ GET 1st DRAWING SHEET OF 13

February 2, 1999

Projection-type display apparatus

INVENTOR: Hashizume, Toshiaki, Suwa, JPX; Iechika, Hisashi, Suwa, JPX; Ogawa, Yasunori,

Suwa, JPX; Haba, Shinji, Suwa, JPX; Yajima, Akitaka, Suwa, JPX

APPL-NO: 08912565 ()

FILED-DATE: August 18, 1997

GRANTED-DATE: February 2, 1999

PRIORITY: August 19, 1996 - 8-217652, Japan (JP); July 15, 1997 - 9-190004, Japan (JP)

ASSIGNEE-AT-ISSUE: Seiko Epson Corporation, Tokyo, JPX

ASSIGNEE-AFTER-ISSUE: February 27, 1998 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)., SEIKO EPSON CORPORATION 4-1, NISHISHINJUKU 2-CHOME, SHINJUKU-KU TOKYO 163, JAPAN,, Reel and Frame Number: 009012/0309

LEGAL-REP: Oliff & Berridge, PLC

PUB-TYPE: February 2, 1999 - Utility Patent having no previously published pre-grant

publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 353#038

US-ADDL-CL: 353#020, 353#031, 353#037, 353#101, 359#009

SEARCH-FLD: 353#38, 353#20, 353#31, 353#34, 353#37, 353#101, 353#119,

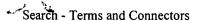
353#69, 353#70

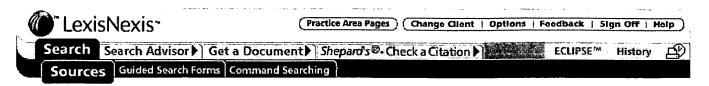
IPC-MAIN-CL: G 03B021#14

PRIM-EXMR: Dowling, William

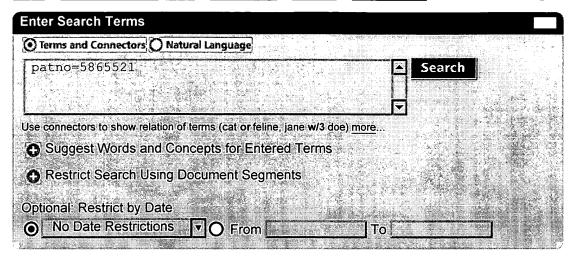
REF-CITED:

<u>5098184</u>, 1992, United States (US) <u>5418583</u>, 1995, United States (US)





<u>Legal</u> > <u>Area of Law - By Topic</u> > <u>Patent Law</u> > <u>Patents</u> > <u>U.S. Patents</u> > <u>Utility Patents</u> (i)



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Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents (1)

Terms: patno is 6000802 (Edit Search)

00163163 () 6000802 December 14, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT **6000802**

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Link to Claims Section ◆ GET 1st DRAWING SHEET OF 13

December 14, 1999

Projection-type display apparatus

REISSUE: December 3, 2001 - Reissue Application filed Ex. Gp.: 2851; Re. S.N. 10/014,937April

30, 2002

INVENTOR: Hashizume, Toshiaki, Suwa, JPX; Iechika, Hisashi, Suwa, JPX; Ogawa, Yasunori, Suwa,

JPX; Haba, Shinji, Suwa, JPX; Yajima, Akitaka, Suwa, JPX

APPL-NO: 00163163 ()

FILED-DATE: September 30, 1998

GRANTED-DATE: December 14, 1999

PRIORITY: August 19, 1996 - 8-217652, Japan (JP); July 15, 1997 - 9-190004, Japan (JP)

ASSIGNEE-AT-ISSUE: Seiko Epson Corporation, Tokyo, JPX

LEGAL-REP: Oliff & Berridge, PLC

PUB-TYPE: December 14, 1999 - Utility Patent having no previously published pre-grant

publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

Addition of Ser. No. 912565, August 18, 1997

US-MAIN-CL: 353#038

US-ADDL-CL: 349#005, 349#061, 353#020, 353#031

SEARCH-FLD: 353##31, 353##20, 353##33, 353##34, 353##37, 353##38, 353##101, 353##98, 353##99, 353##119, 353##69, 353##70, 349##5, 349##7, 349##8, 349##9,

349##61,349##62

IPC-MAIN-CL: G 03B021#14

PRIM-EXMR: Dowling, William

REF-CITED:

Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents (1)

Terms: patno is 6247817 (Edit Search)

09501656 () 6247817 June 19, 2001

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT 6247817

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Link to Claims Section ◆ Get Drawing Sheet 1 of 14

June 19, 2001

Projector

INVENTOR: Ogawa, Yasunori - Suwa, Japan (JP); Haba, Shinji - Suwa, Japan (JP); Yajima, Akitaka - Suwa, Japan (JP); Hashizume, Toshiaki - Suwa, Japan (JP); Iechika, Hisashi - Suwa, Japan (JP)

APPL-NO: 09501656 ()

FILED-DATE: February 10, 2000

GRANTED-DATE: June 19, 2001

PRIORITY: August 19, 1996 - 8-217652, Japan (JP); July 2, 1997 - 9-177453, Japan (JP)

ASSIGNEE-AT-ISSUE: Seiko Epson Corporation, Tokyo, Japan (JP), 03

LEGAL-REP: Oliff & Berridge, PLC

PUB-TYPE: June 19, 2001 - Utility Patent having no previously published pre-grant publication (B1)

PUB-COUNTRY: United States (US)

REL-DATA:

Continuation of Ser. No. 08/912566, August 18, 1997, GRANTED PATENT6142634, Utility Patent

having no previously published pre-grant publication (A)

US-MAIN-CL: 353#038

US-ADDL-CL: 353#119, 353#020

SEARCH-FLD: 353#038, 353#020, 353#098, 353#099, 353#119, 353#101, 353#100

IPC-MAIN-CL: 7G 03B021#14

PRIM-EXMR: Dowling, William

REF-CITED:

4645319, February, 1987, Fekete, United States (US)

5092671, March, 1992, Van Os, United States (US)

5098184, March, 1992, Van Den Brandt, United States (US)

5278680, January, 1994, Karasawa et al., United States (US)

Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents (1)

Terms: patno is 6142634 (Edit Search)

08912566 () 6142634 November 7, 2000

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT **6142634**

Access PDF of Official Patent. (Note: Cost incurred in a later step)

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Link to Claims Section ◆ GET 1st DRAWING SHEET OF 13

November 7, 2000

Projector

INVENTOR: Ogawa, Yasunori, Suwa, JPX; Haba, Shinji, Suwa, JPX; Yajima, Akitaka, Suwa, JPX;

Hashizume, Toshiaki, Suwa, JPX; Iechika, Hisashi, Suwa, JPX

APPL-NO: 08912566 ()

FILED-DATE: August 18, 1997

GRANTED-DATE: November 7, 2000

PRIORITY: August 19, 1996 - 8-217652, Japan (JP); July 2, 1997 - 9-177453, Japan (JP)

ASSIGNEE-AT-ISSUE: Seiko Epson Corporation, Tokyo, JPX

ASSIGNEE-AFTER-ISSUE: February 3, 1998 - ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)., SEIKO EPSON CORPORATION 4-1, NISHISHINJUKU 2-CHOME,

SHINJUKU-KU TOKYO 163, JAPAN,, Reel and Frame Number: 008935/0997

Silly on the form 103, sai all, need and frame ramber. 000333, 033

LEGAL-REP: Oliff & Berridge, PLC

PUB-TYPE: November 7, 2000 - Utility Patent having no previously published pre-grant publication

(A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 353#038

US-ADDL-CL: 353#101

SEARCH-FLD: 353#38, 353#20, 353#31, 353#34, 353#37, 353#101, 353#119, 353#98,

353#99, 353#69, 353#70, 349#8, 349#9

IPC-MAIN-CL: G 03B021#14

PRIM-EXMR: Dowling, William

REF-CITED:

4645319, 1987, United States (US)

5092671, 1992, United States (US)

5098184, 1992, United States (US)

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Search statement 3

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** SS 3: Results 1

Search statement 4

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US5865521 A 19990202 [US5865521]

TI - (A) Projection-type display apparatus

PA - (A) SEIKO EPSON CORP (JP)

IN - (A) HASHIZUME TOSHIAKI (JP); IECHIKA HISASHI (JP); OGAWA YASUNORI (JP); HABA SHINJI (JP); YAJIMA AKITAKA (JP)

AP - US91256597 19970818 [1997US-0912565]

PR - JP19000497 19970715 [1997JP-0190004]

- JP21765296 19960819 [1996JP-0217652]

IC - (A) G03B-021/14

EC - H04N-009/31V

PCL - ORIGINAL (O): 353038000; CROSS-REFERENCE (X): 353020000 353031000 353037000 353101000 359009000

DT - Corresponding document

CT - US5098184; US5418583; US5626409; US5662401; JP3-111806

STG - (A) United States patent

AB - An output light from an light source lamp unit 8 in a projection-type display apparatus illuminates liquid-crystal light valves 925R, 925G and 925B for three colors via an integrator optical system 923. A superimposing lens 930 that is a component of the integrator optical system 923 as a uniform illumination optical system is arranged such that the mounting position of the superimposing lens 930 is fine-adjustable in a direction orthogonal to an optical axis 1a. By fine-adjusting the mounting position of the superimposing lens 930, the position of an illumination area B is adjusted such that the illumination area includes the image forming area A of the liquid-crystal light valve. It is not necessary to assure a wide margin around the image forming area A to cover the offset of the position of the illumination area B. As a result, the utilization of illumination light is heightened and a bright projected image results.

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1/1 LGST - (C) LEGSTAT
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PN - US 5865521 [US5865521]

AP - US 912565/97 19970818 [1997US-0912565]

DT - US-P

ACT - 19970818 US/AE-A

APPLICATION DATA (PATENT)

{US 912565/97 19970818 [1997US-0912565]}

- 19980227 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

SEIKO EPSON CORPORATION 4-1, NISHISHINJUKU 2-CHOME, SHINJUKU-KU TOKYO 163, JAPAN * HASHIZUME, TOSHIAKI : 19980217; IECHIKA, HISASHI :

19980217; OGAWA, YASUNORI : 19980217; HABA, SHINJI : 19980217; YAJIMA

: 19980217

- 19990202 US/A

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PATENT
UP - 2000-06
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1 Patent Groups

Search statement

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1/11 INPADOC - (C) INPADOC
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PN - CN 1175707 A 19980311 [CN1175707]

TI - PROJECTION TYPE DISPLAY DEVICE

IN - HASHIZUME TOSHIAKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP]

PA - SEIKO EPSON CORP [JP]

- CN 97116050/97-A 19970815 [1997CN-0116050] PR - JP 217652/96-A 19960819 [1996JP-0217652] - JP 190004/97-A 19970715 [1997JP-0190004]

IC - G03B-021/00

2/11 INPADOC - (C) INPADOC

PN - EP 825472 A2 19980225 [EP-825472]

TI - PROJECTION-TYPE DISPLAY APPARATUS LA - ENG

IN - HASHIZUME TOSHIAKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP]; HABA SHINJI [JP]; YAJIMA AKITAKA [JP]

PA - SEIKO EPSON CORP [JP]

AP - EP 97306211/97-A 19970815 [1997EP-0306211]

PR - JP 217652/96-A 19960819 [1996JP-0217652] - JP 190004/97-A 19970715 [1997JP-0190004]

IC - G02B-027/10; H04N-009/31

DS - DE* GB*

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PN - EP 825472 [EP-825472]

AP - EP 97306211/97 19970815 [1997EP-0306211]

DT - EP-P

ACTE- 19970815 EP/AE-A

EP-APPLICATION

{EP 97306211/97 19970815 [1997EP-0306211]}

- 19980225 EP/AK-A2 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT: DE GB

- 19980225 EP/A2 [+]

PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT

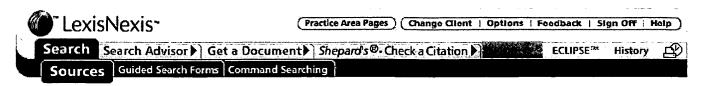
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     19990915
    - 20000105 EP/AKX [+]
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    - 20000315 EP/17Q [+]
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     20000131
UP - 2000-11
3/11 INPADOC - (C) INPADOC
PN - EP 825473 A2 19980225 [EP-825473]
TI - PROJECTOR APPARATUS
LA - ENG
IN - OGAWA YASUNORI [JP]; YAJIMA AKITAKA [JP]; IECHIKA HISASHI [JP]; HABA
     SHINJI [JP]; HASHIZUME TOSHIAKI [JP]
PA - SEIKO EPSON CORP [JP]
AP - EP 97306309/97-A 19970819 [1997EP-0306309]
PR - JP 217652/96-A 19960819 [1996JP-0217652]
    - JP 177453/97-A 19970702 [1997JP-0177453]
IC - G02B-027/10; H04N-009/31
DS - DE* GB*
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PN - EP 825473 [EP-825473]
AP - EP 97306309/97 19970819 [1997EP-0306309]
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ACTE- 19970819 EP/AE-A
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PN - EP 825472 A3 19990421 [EP-825472]
TI - PROJECTION-TYPE DISPLAY APPARATUS
LA - ENG
IN - HASHIZUME TOSHIAKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP];
     HABA SHINJI [JP]; YAJIMA AKITAKA [JP]
PA - SEIKO EPSON CORP [JP]
AP - EP 97306211/97-A 19970815 [1997EP-0306211]
PR - JP 217652/96-A 19960819 [1996JP-0217652]
    - JP 190004/97-A 19970715 [1997JP-0190004]
IC - G02B-027/10; H04N-009/31
DS - AT* BE* CH* DE* DK* ES* FI* FR* GB* GR* IE* IT* LI* LU* MC* NL* PT* SE*
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AP - EP 97306211/97 19970815 [1997EP-0306211]
DT - EP-P
ACTE- 19970815 EP/AE-A
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      FIRST EXAMINATION REPORT
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UP - 2000-11
5/11 INPADOC - (C) INPADOC
PN - EP 825473 A3 19990421 [EP-825473]
TI - PROJECTOR APPARATUS
   - ENG
   - OGAWA YASUNORI [JP]; YAJIMA AKITAKA [JP]; IECHIKA HISASHI [JP]; HABA
     SHINJI [JP]; HASHIZUME TOSHIAKI [JP]
PA - SEIKO EPSON CORP [JP]
   - EP 97306309/97-A 19970819 [1997EP-0306309]
PR - JP 217652/96-A 19960819 [1996JP-0217652]
- JP 177453/97-A 19970702 [1997JP-0177453]
   - G02B-027/10; H04N-009/31
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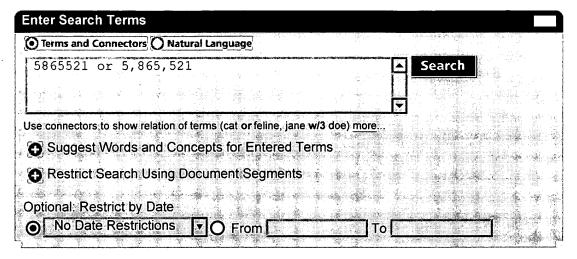
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PN - EP 825473 [EP-825473]
AP - EP 97306309/97 19970819 [1997EP-0306309]
DT - EP-P
ACTE- 19970819 EP/AE-A
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    - 19980225 EP/A2 [+]
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    - 20000105 EP/AKX [+]
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      FIRST EXAMINATION REPORT
      20000128
UP - 2000-11
6/11 INPADOC - (C) INPADOC
PN - JP 10115799 A2 19980506 [JP10115799]
TI - PROJECTION TYPE DISPLAY DEVICE
IN - OGAWA TAKANORI; HASHIZUME TOSHIAKI; HABA SHINJI; IECHIKA HISASHI;
      YAJIMA FUMITAKA
PA - SEIKO EPSON CORP
AP - JP 177453/97-A 19970702 [1997JP-0177453]
PR - JP 177453/97-A 19970702 [1997JP-0177453]
- JP 217652/96-A 19960819 [1996JP-0217652]
IC - G02B-027/18; G02B-027/28; G02F-001/13; G02F-001/1335; H04N-005/74
7/11 INPADOC - (C) INPADOC
PN - JP 10115803 A2 19980506 [JP10115803]
   - PROJECTION TYPE DISPLAY DEVICE
IN - HASHIZUME TOSHIAKI; IECHIKA HISASHI; OGAWA TAKANORI; HABA SHINJI;
      YAJIMA FUMITAKA
PA - SEIKO EPSON CORP
AP - JP 190004/97-A 19970715 [1997JP-0190004]
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- JP 217652/96-A 19960819 [1996JP-0217652]
IC - G02B-027/28; G02F-001/13; G02F-001/1335; H04N-005/74
8/11 INPADOC - (C) INPADOC
PN - US 6142634 A 20001107 [US6142634]
TI - PROJECTOR
IN - OGAWA YASUNORI [JP]; HABA SHINJI [JP]; YAJIMA AKITAKA [JP]; HASHIZUME
      TOSHIAKI [JP]; IECHIKA HISASHI [JP]
   - SEIKO EPSON CORP [JP]
AP - US 912566/97-A 19970818 [1997US-0912566]
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PR - JP 217652/96-A 19960819 [1996JP-0217652]
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IC - G03B-021/14
1/1 LEGALI - (C) LEGSTAT
PN - US 6142634 [US6142634]
AP - US 912566/97 19970818 [1997US-0912566]
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     APPLICATION DATA (PATENT)
     {US 912566/97 19970818 [1997US-0912566]}
    - 20001107 US/A
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UP - 2000-48
9/11 INPADOC - (C) INPADOC
PN - US 6247817 BA 20010619 [US6247817]
TI - PROJECTOR
IN - OGAWA YASUNORI [JP]; HABA SHINJI [JP]; YAJIMA AKITAKA [JP]; HASHIZUME
     TOSHIAKI [JP]; IECHIKA HISASHI [JP]
PA - SEIKO EPSON CORP [US]
AP - US 501656/00-A 20000210
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PR - US 501656/00-A 20000210
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    - JP 217652/96-A 19960819
                               [1996JP-0217652]
   - JP 177453/97-A 19970702 [1997JP-0177453]
   - US 912566/97-A1 19970818
                               [1997US-0912566]
IC - G03B-021/14
1/1 LEGALI - (C) LEGSTAT
PN - US 6247817 [US6247817]
   - US 501656/00 20000210 [2000US-0501656]
DT - US-P
ACTE- 20000210 US/AE-A
     APPLICATION DATA (PATENT)
     {US 501656/00 20000210 [2000US-0501656]}
    - 20010619 US/BA
     PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)
UP - 2001-29
10/11 INPADOC - (C) INPADOC
PN - US 5865521 A 19990202 [US5865521]
TI - PROJECTION-TYPE DISPLAY APPARATUS
IN - HASHIZUME TOSHIAKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP];
     HABA SHINJI [JP]; YAJIMA AKITAKA [JP]
PA - SEIKO EPSON CORP [JP]
AP - US 912565/97-A 19970818 [1997US-0912565]
PR - JP 217652/96-A 19960819 [1996JP-0217652]
   - JP 190004/97-A 19970715 [1997JP-0190004]
IC - G03B-021/14
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AP - US 912565/97 19970818 [1997US-0912565]
DT - US-P
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ACTE- 19970818 US/AE-A
      APPLICATION DATA (PATENT)
      {US 912565/97 19970818 [1997US-0912565]}
    - 19980227 US/AS02
     ASSIGNMENT OF ASSIGNOR'S INTEREST
      SEIKO EPSON CORPORATION 4-1, NISHISHINJUKU 2-CHOME, SHINJUKU-KU TOKYO
      163, JAPAN * HASHIZUME, TOSHIAKI : 19980217; IECHIKA, HISASHI :
      19980217; OGAWA, YASUNORI : 19980217; HABA, SHINJI : 19980217; YAJIMA
      : 19980217
    - 19990202 US/A
     PATENT
UP - 2000-06
11/11 INPADOC - (C) INPADOC
PN - US 6000802 A 19991214 [US6000802]
TI - PROJECTION-TYPE DISPLAY APPARATUS
IN - HASHIZUME TOSHIAKI [JP]; IECHIKA HISASHI [JP]; OGAWA YASUNORI [JP];
     HABA SHINJI [JP]; YAJIMA AKITAKA [JP]
PA - SEIKO EPSON CORP [JP]
AP - US 163163/98-A 19980930 [1998US-0163163]
PR - US 163163/98-A 19980930
                                [1998US-0163163]
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    - US 912565/97-A1 19970818 [1997US-0912565]
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1/1 LEGALI - (C) LEGSTAT
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AP - US 163163/98 19980930 [1998US-0163163]
DT - US-P
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      {US 163163/98 19980930 [1998US-0163163]}
    - 19991214 US/A
      PATENT
    - 20020430 US/RF
      REISSUE APPLICATION FILED
      20011203
UP - 2002-20
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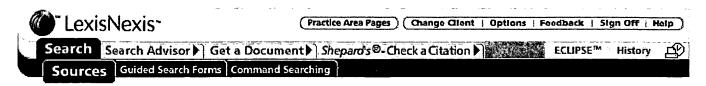
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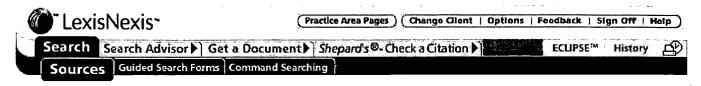
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